



U.S. Department
of Transportation

**Research and
Special Programs
Administration**

400 Seventh Street, S.W.
Washington, D.C. 20590

DEC 21 2000

DOT-E 9024
(FOURTH REVISION)

EXPIRATION DATE: November 30, 2002

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Arbel-Fauvet-Rail (AFR), Paris France
(U.S. Agent: Mary-Hoyt Joyce
Chevy Chase, Maryland)
2. PURPOSE AND LIMITATION:
 - a. This exemption authorizes the transportation in commerce of certain Division 2.1 and 2.2 materials in a non-DOT Specification portable tanks. This exemption provides no relief from any Hazardous Materials Regulation (HMR) other than as specifically stated herein.
 - b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.315 except as prescribed herein.
5. BASIS: This exemption is based on the application of Arbel-Fauvet-Rail dated September 18, 2000, submitted in accordance with § 107.109.

DEC 21 2008

Continuation DOT-E 9024 (4th Rev.)

Page 2

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Materials Description	Hazard Class/ Division	Identi- fication Number	Packing Group
1-Chloro-1, 1-difluoroethane or Refrigerant gas, R 142b.	2.1	UN2517	N/A
Chlorodifluoromethane or Refrigerant gas, R 22	2.2	UN1018	N/A
Chloropetafluoroethane or Refrigerant gas, R 115	2.2	UN1020	N/A
Dichlorodifluoromethane or Refrigerant gas, R 12	2.2	UN1028	N/A
1-2-Dichloro-1, 1, 2, 2- Tetrafluoroethane or Refrigerant gas, R 114	2.2	UN1958	N/A
Chlorodifluoromethane and chloropentafuloroethane mixture or Refrigerant gas, R 502, with fixed boiling point with approximately 49 percent chlorodifluoromethane	2.2	UN1973	N/A
Chlorodifluorobromomethane or Refrigerant gas, R 12B1	2.2	UN1974	N/A
1,1, 1, 2-Tetrafloroethane or Refrigerant gas, R 134a	2.2	UN3159	N/A

And any other flammable gases specifically identified to and acknowledged in writing by the OHMEA prior to the first shipment.

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Prescribed packagings are non-DOT specification portable tanks, mounted in ISO frames, designed and constructed in accordance with Fauvet-Rail drawings CO 167313 dated January 31, 1983, CO 167296 Rev. A dated January 26, 1983, and list of drawings CO 167322, technical specifications and calculations on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA), and in conformance with the following:

1. Code--Complies with DOT Specification 51 except the tanks are not ASME Code stamped; IMO Type 5.

DEC 21 2000

2. Insulation -- None. Tanks may be equipped with an optional sun shield.
3. Water Capacity (U.S. Gallons) -- 4,240.
4. Material -- French steel standard NF A 36 207, designation A550 FP 2 Type II (Carbon Steel), Yield strength - 56,566 psi; Tensile strength - 82,383 psi.
5. Tank Size (inches)
(outside dia.) X (length) X (thickness)
78.74 224.80 0.6535(min. after forming)

Head Thickness -- 0.5945 (min. after forming)
Weld Joint Efficiency -- 1.0
Corrosion Allowance -- 0.0
Number of Baffles -- 3
6. Design Pressure (PSIG) - 336.7
Note: Design pressure means "maximum allowable working pressure (MAWP)" as used in the ASME Code.
7. Test Pressure, Minimum (PSIG) - 507.6
8. Opening -- One(1), inspection opening on the front head; one(1), 17.7 inch diameter manhole and one(1), safety relief device pad on top; one(1), liquid phase outlet and one(1), gas phase outlet on the bottom.

Note: Each bottom outlet valve must be provided with a shear section that meets the requirements of § 178.337-12.
9. Tank surface area (square feet) -- 410.
10. Safety Relief Devices -- Two (2), 2.5 inch diameter spring loaded safety relief valves outboard of and in series with one (1), 3.0 inch diameter rupture disc all set at 336.7 psig. Total relief device capacity is 1,373,035 SCFH.
11. G-Loadings: Vertical down 2; Vertical up 2; Longitudinal 2; and Transverse 2.

DEC 21 2000

12. Maximum Gross Weight (pounds) -- 61,730.
13. Maximum Commodity Weight (pounds) -- 43,872
14. Tare Weight (pounds) -- 17,858
15. Design Specific Gravity -- 1.24
16. Design Temperature (°F) -- 122

b. TESTING -

1. Hydrostatic test certificates for each tank must be maintained by the owner or manufacturer at its principal business office and be made available to a DOT representative upon request.
2. Each tank must be (i) visually inspected prior to each trip to ensure that it has not been damaged on the previous trip; and (ii) retested and reinspected once every five(5) years in accordance with § 173.32 as prescribed for DOT Specification 51 portable tanks.

c. OPERATIONAL CONTROLS -

1. Each portable tank must be plainly marked on both sides near the middle, in letters at least two inches high on a contrasting background, "DOT-E 9024".
2. No product may be shipped that has venting requirements exceeding 1,373,035 SCFH, or has a specific gravity greater than 1.55. The venting required for each product must be determined by the flow formulas contained in Compressed Gas Association (CGA) pamphlet S-1.2.
3. The tank must be filled in accordance with the provisions of § 173.315.
4. "DOT-E 9024" must replace the "DOT-51" specification marking and be stamped on the metal manufacturer's data plate on the line which reads "D.O.T. Specification No.".

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this exemption who receives a package covered by this exemption may reoffer it for transportation provided no modifications or changes are made to the package and it is reoffered for transportation in conformance with this exemption and the HMR.

b. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight and cargo vessel.10. MODAL REQUIREMENTS:

a. A current copy of this exemption must be carried aboard each cargo vessel used to transport packages covered by this exemption.

b. Portable tanks may not be transported in container-on-flat car (COFC) or trailer-on-flat car (TOFC) service except under conditions approved by the Associate Administrator for Safety, Federal Railroad Association.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.


DEC 21 2000

12. REPORTING REQUIREMENTS:

a. The holder of this exemption, as identified in paragraph 1 above, must contact the OHMEA immediately after any of the tanks covered by this exemption are sold to another party.

b. Shippers who ship under the terms of this exemption must report any incident involving loss of contents of the tanks described herein to the Associate Administrator for Hazardous Materials Safety as soon as practicable.

Issued in Washington, D.C.:



Robert A. McGuire
for Associate Administrator for
Hazardous Materials Safety

DEC 21 2000

(DATE)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590.
Attention: DHM-31.

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

Copies of exemptions may be obtained from the AAHMS, U.S. Department of Transportation, 400 7th Street, Washington, DC 20590-0001, Attention: Records Center, 202-366-5046.

PO: sln

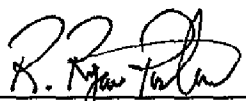
DEC 21 2000

Continuation DOT-E 9024 (4th Rev.) Appendix A

Page 7

The following are hereby granted party status to this exemption based on their application(s) submitted in accordance with §§ 107.107 or 107.109, as appropriate:

Company Name City/State	Applica- tion Date	Issue Date	Expiration Date
CCR S.A. Cie des Containers Reservoirs Paris, France (U.S. Agent: ERMEWA Inc. Houston, Texas) (Former Grantee: Ermetainer SA)	8/28/00	DEC 21 2000	11/30/2002


for Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety